

03050106-090

(Cedar Creek)

General Description

Watershed 03050106-090 is located in Fairfield and Richland Counties and consists primarily of **Cedar Creek** and its tributaries. The watershed occupies 64,579 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Herndon-Helena-Georgeville series.

The erodibility of the soil (K) averages 0.39, and the slope of the terrain averages 11%, with a range of 2-25%. Land use/land cover in the watershed includes: 0.8% urban land, 7.4% agricultural land, 1.4% scrub/shrub land, 90.1% forested land, and 0.3% water.

Big Cedar Creek originates near the Town of Ridgeway and accepts drainage from Center Creek (Rock Dam Creek), Persimmon Fork, Horse Creek, Williams Branch (Big Branch), and Little Cedar Creek (Crooked Run Creek, Bethel Pond, Smith Branch, Chappel Branch). Big Cedar Creek merges with Harmon Creek (Little Horse Branch, Elkins Creek) to form Cedar Creek, which flows into the Broad River. There are a few ponds and lakes (totaling 133.8 acres) in this watershed and a total of 150.0 stream miles, all classified FW.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
B-320	W/BIO	FW	BIG CEDAR CREEK AT SC 215

Big Cedar Creek (B-320) - Aquatic life uses are fully supported. Recreational uses are partially supported due to fecal coliform bacteria excursions. A total maximum daily load (TMDL) has been developed to address this impairment (see Watershed Protection and Restoration Strategies below).

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT</i>	<i>NPDES# TYPE LIMITATION</i>
CEDAR CREEK TRIBUTARY TOWN OF RIDGEWAY WWTP PIPE #: 001 FLOW: 0.12 WQL FOR BOD5,DO,TRC,NH3N	SC0022900 MINOR DOMESTIC WATER QUALITY

Nonpoint Source Management Program

Land Disposal Activities

Landfill Activities

<i>SOLID WASTE LANDFILL NAME</i> <i>FACILITY TYPE</i>	<i>PERMIT #</i> <i>STATUS</i>
TRAPP/DERRICK LANE ST C&D LANDFILL CONSTRUCTION	202900-1301 -----
TNT SANDS C&D LANDFILL CONSTRUCTION	402423-1201 -----

Growth Potential

There is a low potential for growth in the majority of this watershed. Portions of the Towns of Ridgeway and Blythewood are located along the eastern edge of the watershed. Water and sewer services are available in the Blythewood area, which is expected to be a moderate to high growth area.

Watershed Protection and Restoration Strategies

Total Maximum Daily Loads (TMDLs)

A total maximum daily load (TMDL) for fecal coliform has been developed for Cedar Creek. Levels of fecal coliform bacteria can be elevated in water bodies as the result of both point and nonpoint sources of pollution. Between 1991 and 1995, 25% of the samples collected at station B-320 exceeded the 400 colonies/100ml standard. Targeting agricultural land for reduction of bacteria is the most effective strategy for this watershed.

A target level for fecal coliform bacteria of 175 colonies/100ml was established. This translates to an agricultural bacterial loading reduction of 52%. Forested lands are not targeted for reduction, as there are currently no acceptable means of reducing fecal coliform sources within that land use.

There are several tools available for implementing this TMDL, including Nonpoint Source (NPS) pollution outreach activities and materials. SCDHEC will continue to monitor water quality in Cedar Creek to evaluate the effectiveness of these measures.

Funding for TMDL implementation activities is currently available. For more information, see the Bureau of Water web page www.scdhec.net/water or call the Watershed Program at (803) 898-4300.